

Fig. 1

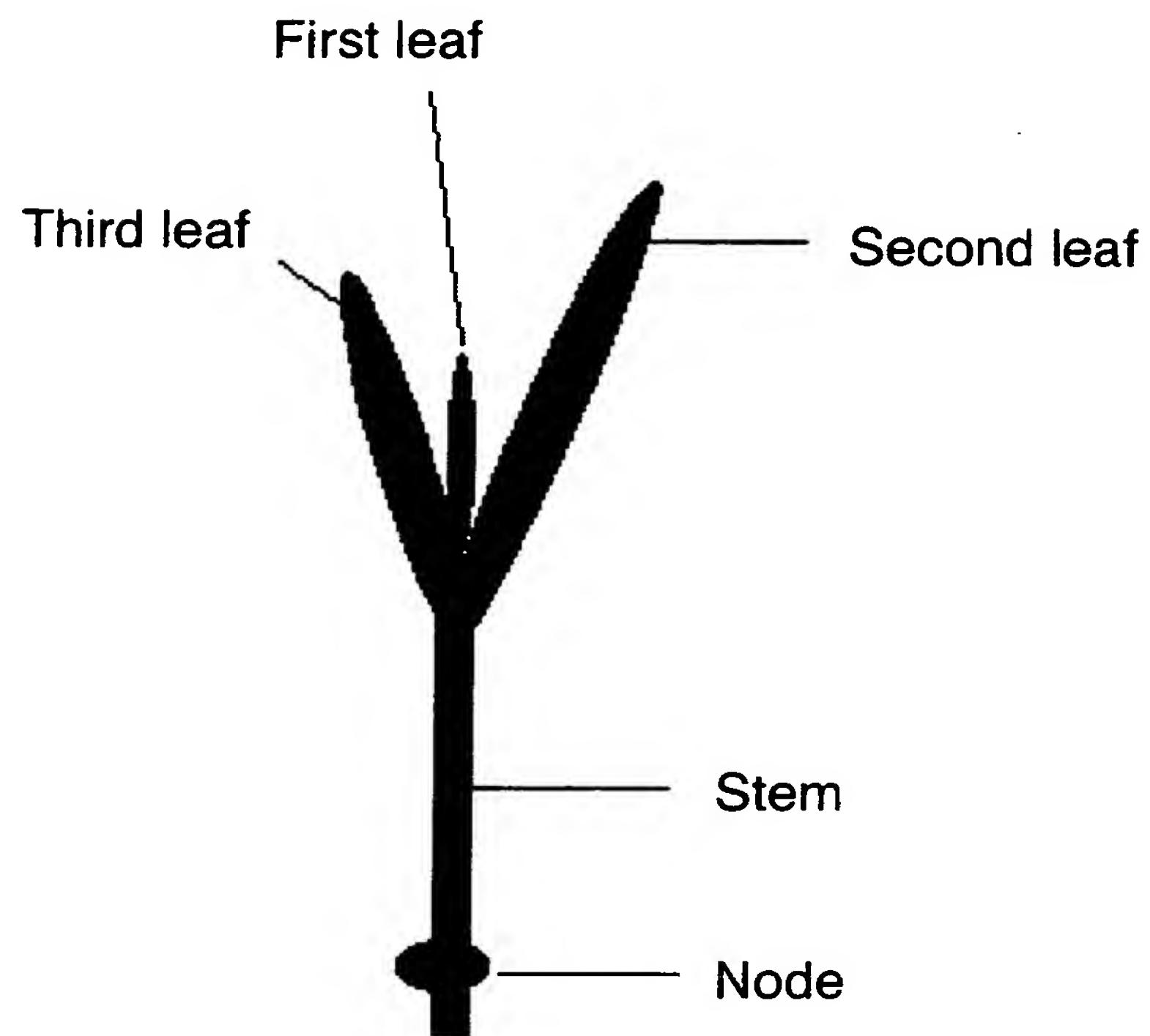


Fig.2

NaCl concentration

A

0 mM    400 mM    0 mM    50 mM



Paspalum

Rice

B

NaCl concentration

0 mM    400 mM    0 mM    50 mM



Paspalum

Rice  
(Pokkari)

Fig.3

[GENETYX-MAC: phylogenetic tree]

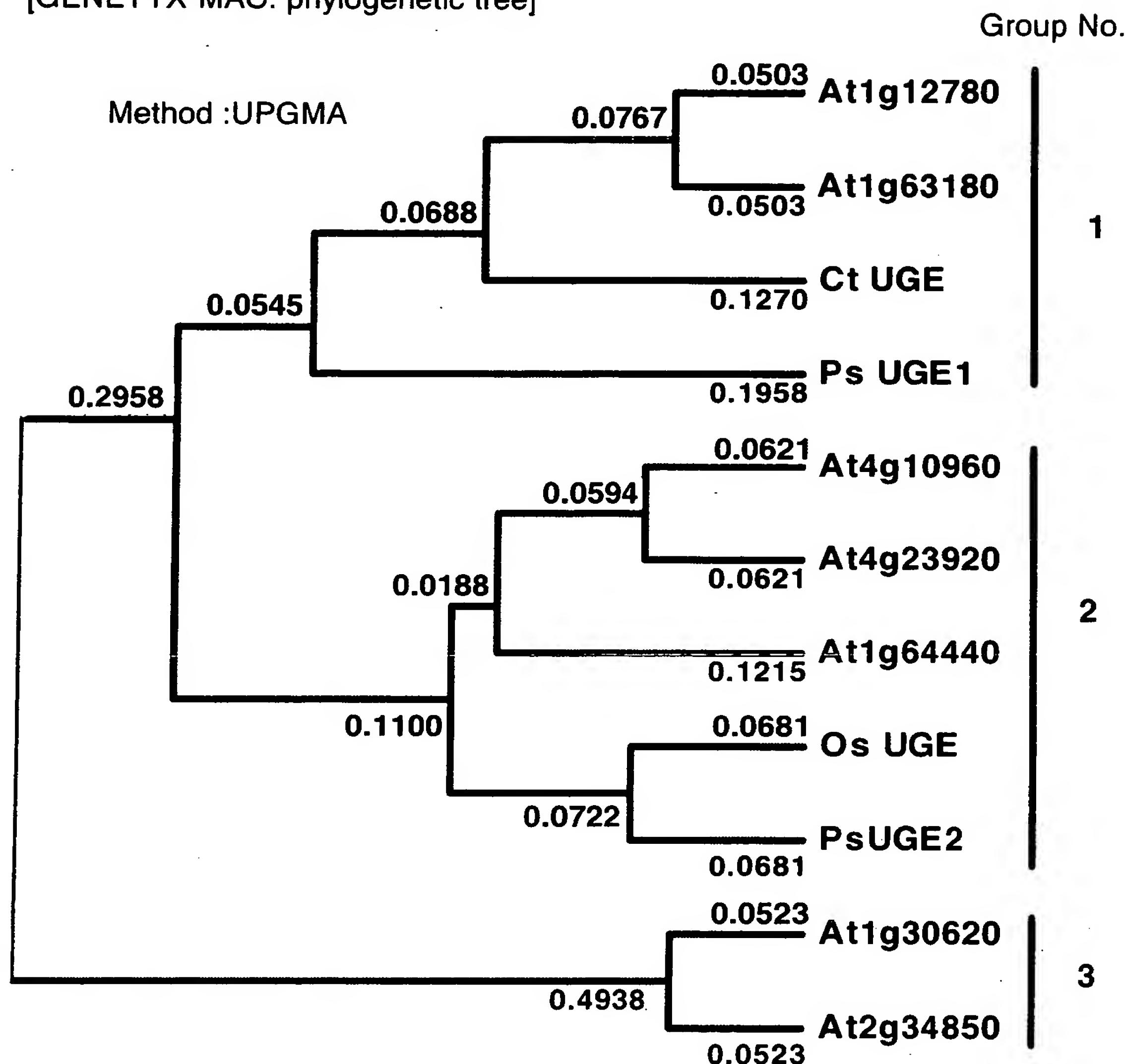


Fig.4

## [GENETYX-MAC: Multiple Alignment]

Date : 2003.03.16

Ps UGE1	1	MAIGGAERAGGGGAGRGR-SV	VTGGAGF GTHTALR LEQGYGMIVVDNFHNNSVPEALE	59
PsUGE2	1	-----MVSAYLRTIL	-----VTGGAGY GSHTVLL LQDGFRWVVVDNLNSVADYVLA	48
At1g12780	1	-----MGSSVEQN	ILYTGGAGF GTHTVVQLL DGFKMSII DNFNSVIEAVD	48
At1g63180	1	-----MGSSVEQN	ILYTGGAGF GTHTVVQLL DGFKMSII DNLNSVMEAVH	48
Ct UGE	1	-----MYS-SR	AGET-- ILYTGGAGF GSHTVYVOLL DGFHMSII DNLYNSVIDAVH	51
Ps UGE1	60	RVR- IAGPALS-AR-	DFIRGDLRSAGDLEKAFAARRYYDAV HFAGLKAVGESVARPDM	116
PsUGE2	49	RVAQ AAS-SNGGAAN	VFHKVDLRDRHAL D FSSHRFEAV HFAGLKAVGESVQKPLL	107
At1g12780	49	RVR-E VGPD S-KK-	DFNLGDLRNKGDI EKLFSKQRFD AV HFAGLKAVGESVENP RR	105
At1g63180	49	RVR-E VGPD S-TK-	DFNLGDLRNKGDI EKLFSNQRFD AV HFAGLKAVGESVGNP RR	105
Ct UGE	52	RVR- LVGPI S-SN-	HEHHGDLRN HOLDI FSKTKFD AV HFAGLKG VGESV NPSN	108
Ps UGE1	117	YVENDNLVGTINLYKAM	NEHGCKKMFSSSATVYQ P EV PCVEDSK D R AMNPYGR TK I	176
PsUGE2	108	YVDNNL I GT I T	E VMAAHGCKK V FSSSATVYQ P KEV P TE E PP CAT NPYGR TK L V	167
At1g12780	106	YFDNNL VGT INLYET	MAKY NCKMM V FSSSATVYQ P KEV P TE E PP CAT NPYGR TK L F L	165
At1g63180	106	YFDNNL VGT INLYET	MAKY NCKMM V FSSSATVYQ P KEV P TE E PP CAT NPYGR TK L F L	165
Ct UGE	109	YVDNNL VAT INL FQY MSK NCKK V	F SSSATVYQ P DQ PCVEDS N HAMNPYGR SK L F V	168
Ps UGE1	177	EELARDYDRAOPGAS V L	RYFNPL G H S G E GEDPKQ V PN N L P Y QQVAVGRLPELN	236
PsUGE2	168	E D I CRDVHRS D P D K I L	LL RYFN P V G A H P S G I GEDP S I P N N L M P Y V QQVAVG R P H T	227
At1g12780	166	EE I ARD I K REPE W I L	LL RYFN P V G A H E S G I GEDPK G I P N N L M P Y I QQVAVGRLPELN	225
At1g63180	166	EE I ARD I H REPE W I L	LL RYFN P V G A H E S G I GEDPK G I P N N L M P Y I QQVAVGRLPELN	225
Ct UGE	169	E E V A R D I Q R A E P E W I L	LL RYFN P V G A H E S G I GEDP Q I P N N L M P Y I QQVAVGRLPELN	228
Ps UGE1	237	VYGH D Y P T D G T A I RD Y TH V D L A D G H I A L G K L F D P D F G C V A N L G T G G T S V L E M V	295	
PsUGE2	228	VY G T D Y N T K D G T G V RD Y I H V D L A D G H I A L G K L F D P D F G C V A N L G T G G T S V L E M V	287	
At1g12780	226	VYGH D Y P T D G S A V RD Y I H V D L A D G H I A L R K L F D P K I G C T A N L G T G G T S V L E M V	284	
At1g63180	226	VYGH D Y P T D G S A V RD Y I H V D L A D G H I A L R K L F D P K I G C T A N L G T G G T S V L E M V	284	
Ct UGE	229	VYGH D Y P T K D G T A I RD Y I H V D L A D G H I A L R K L F D P K I G C T A N L G T G G T S V L E M V	287	
Ps UGE1	296	RAFKKASGKE P T K M P P P P G D A T E V Y A S T E K A E F E L G W R R Q Y G I E E M C D Q W N W A K K N P	355	
PsUGE2	288	RAFEK Y B G K K I P L V A G R R P G D A E I V Y A S T E K A E K E L K W K A K Y G I E E M C D Q W N W A K N P	347	
At1g12780	285	RAFEKASGKK I P I K L C P R R G D A T A V Y A S T E K A E K E L G W K A K Y G I E E M C D Q W N W A K N P	344	
At1g63180	285	SSFEKASGKK I P I K L C P R R G D A T A V Y A S T E K A E K E L G W K A K Y G I E E M C D Q W N W A K N P	344	
Ct UGE	288	RAFEKASGKK I P I K M P P P P G D A T A V Y A S T E K A E K E L G W K A K Y G I E E M C D Q W N W A K N P	347	
Ps UGE1	356	Y G Y C G T A E K --		364
PsUGE2	348	Y G Y A G S P O N S S		358
At1g12780	345	Y G Y O N K L ----		351
At1g63180	345	Y G F D K P ----		351
Ct UGE	348	Y G Y O G K H ----		354

Fig.5

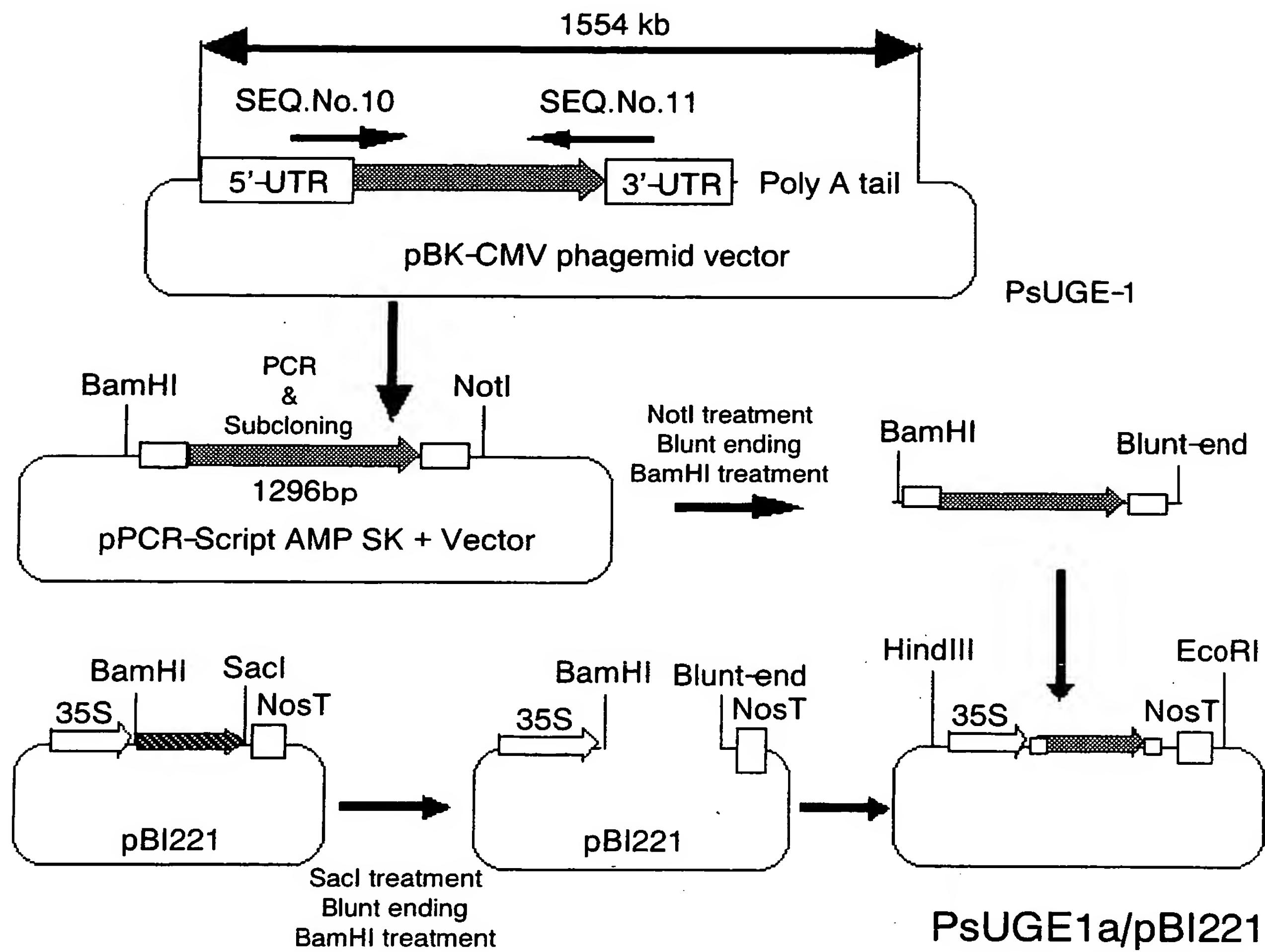
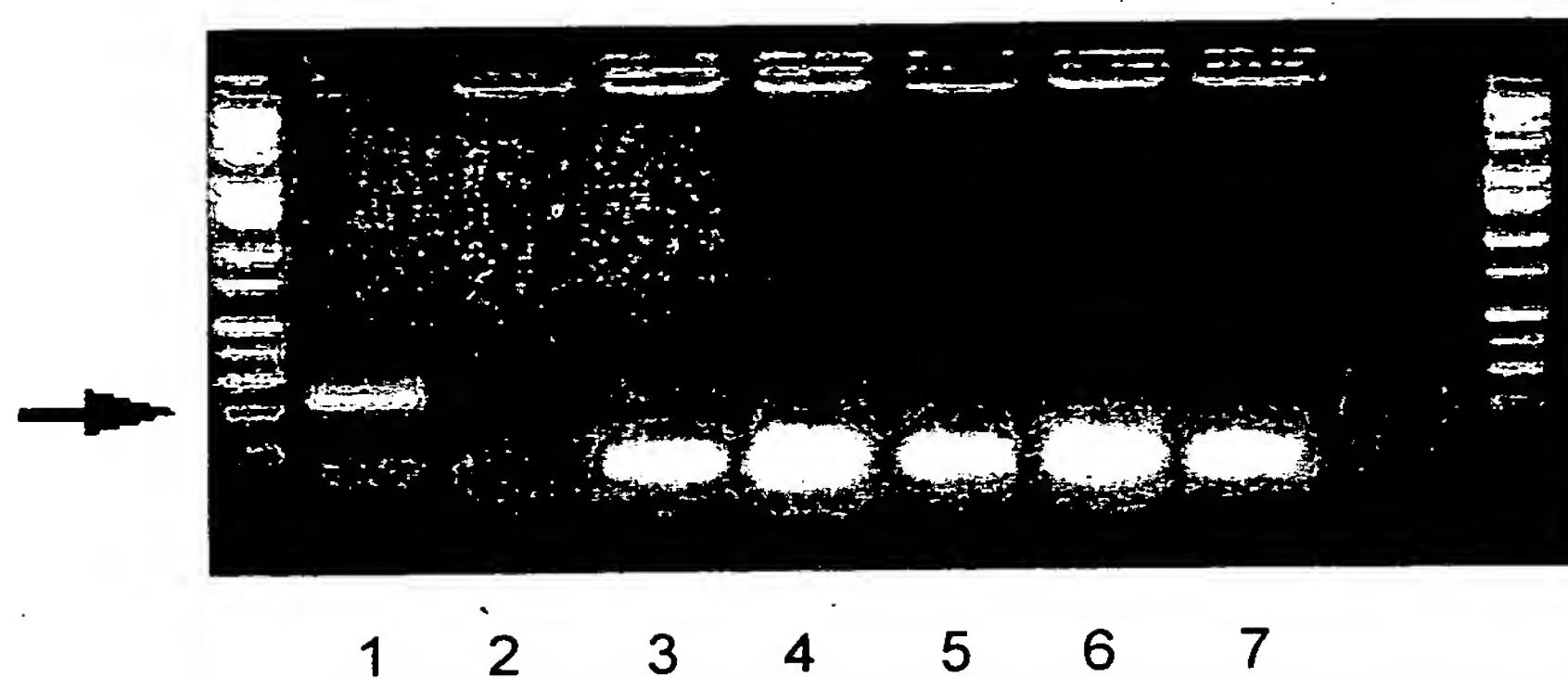


Fig.6

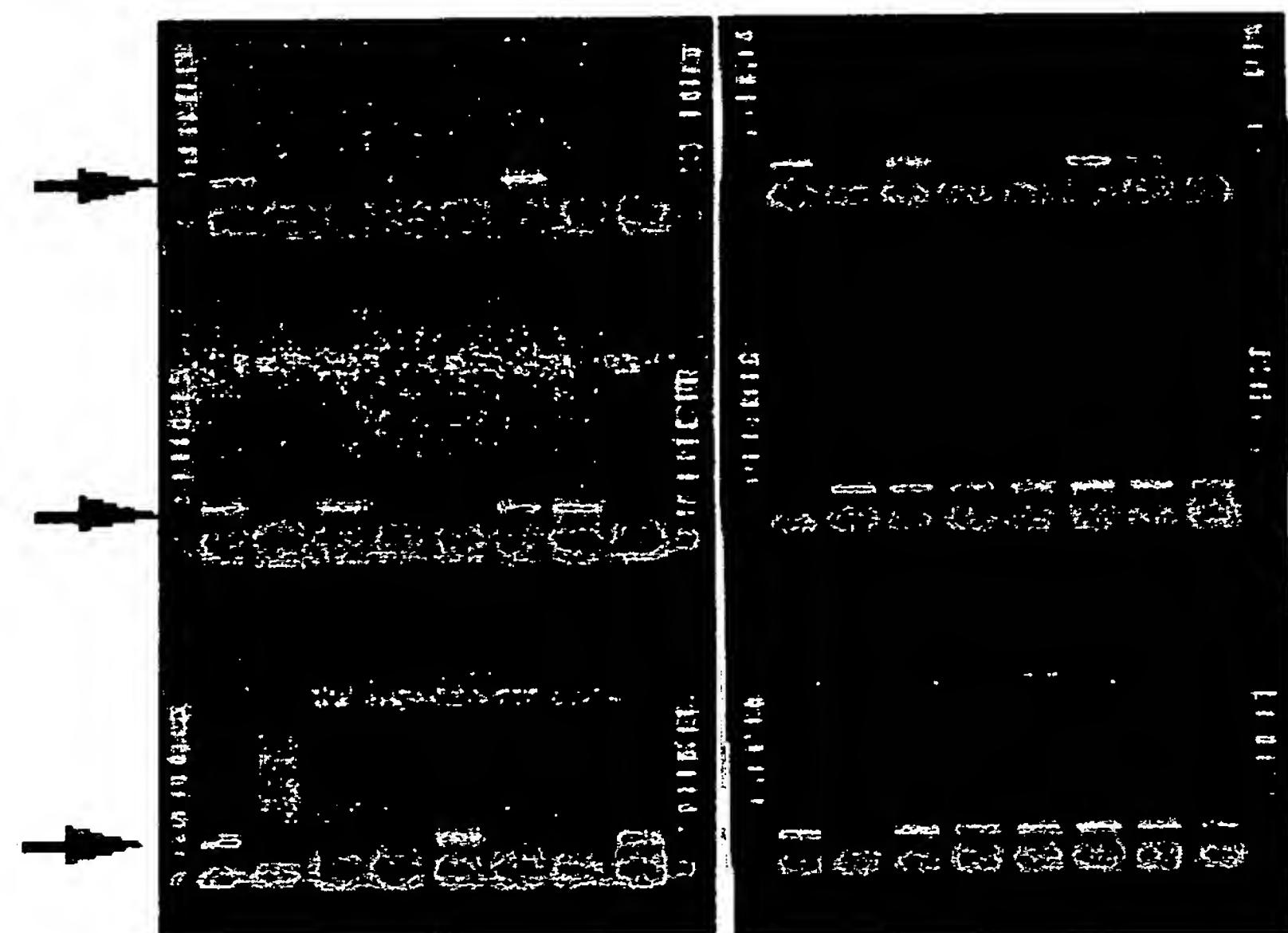


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Fig.7

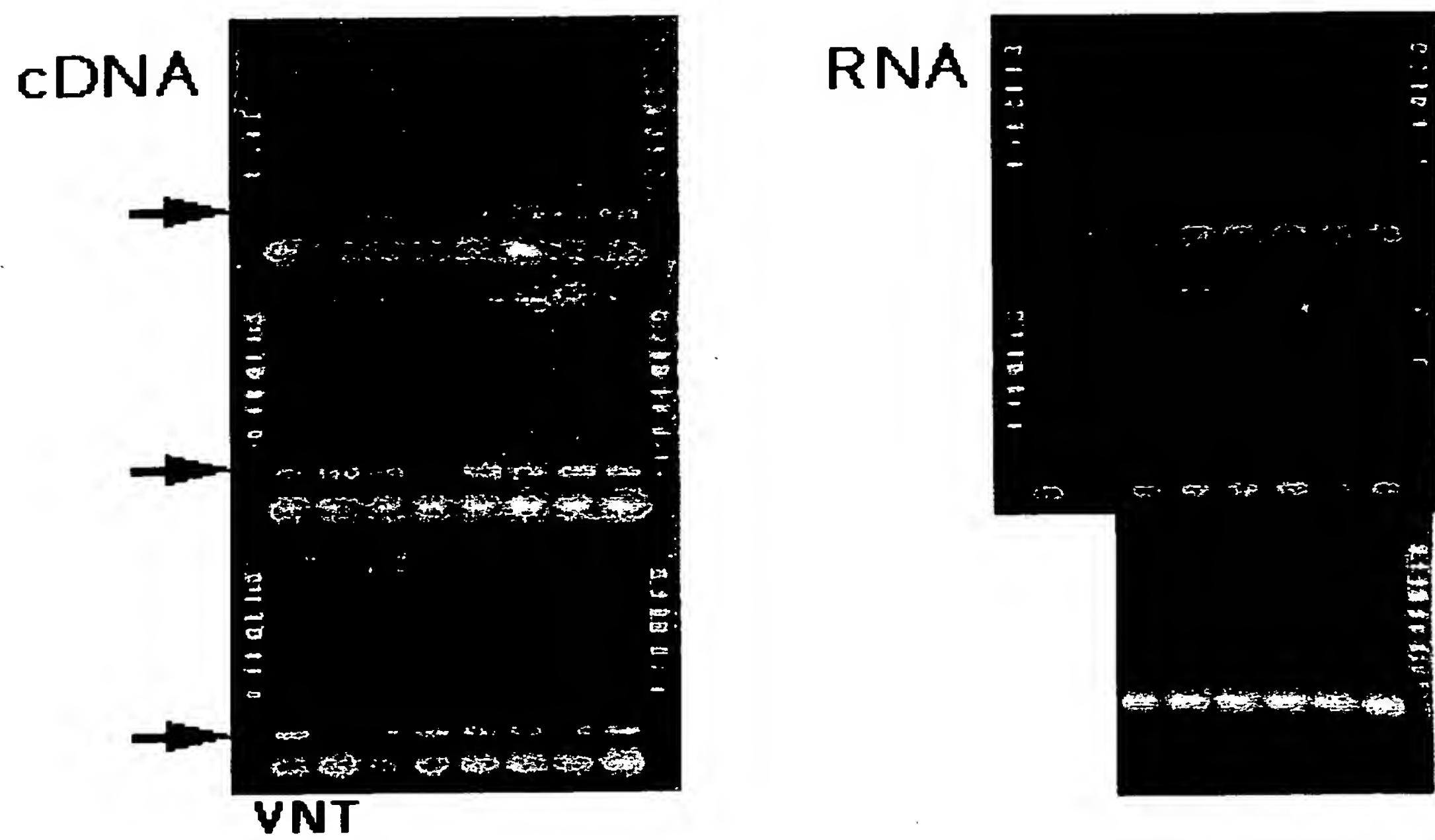


VNT



VNT

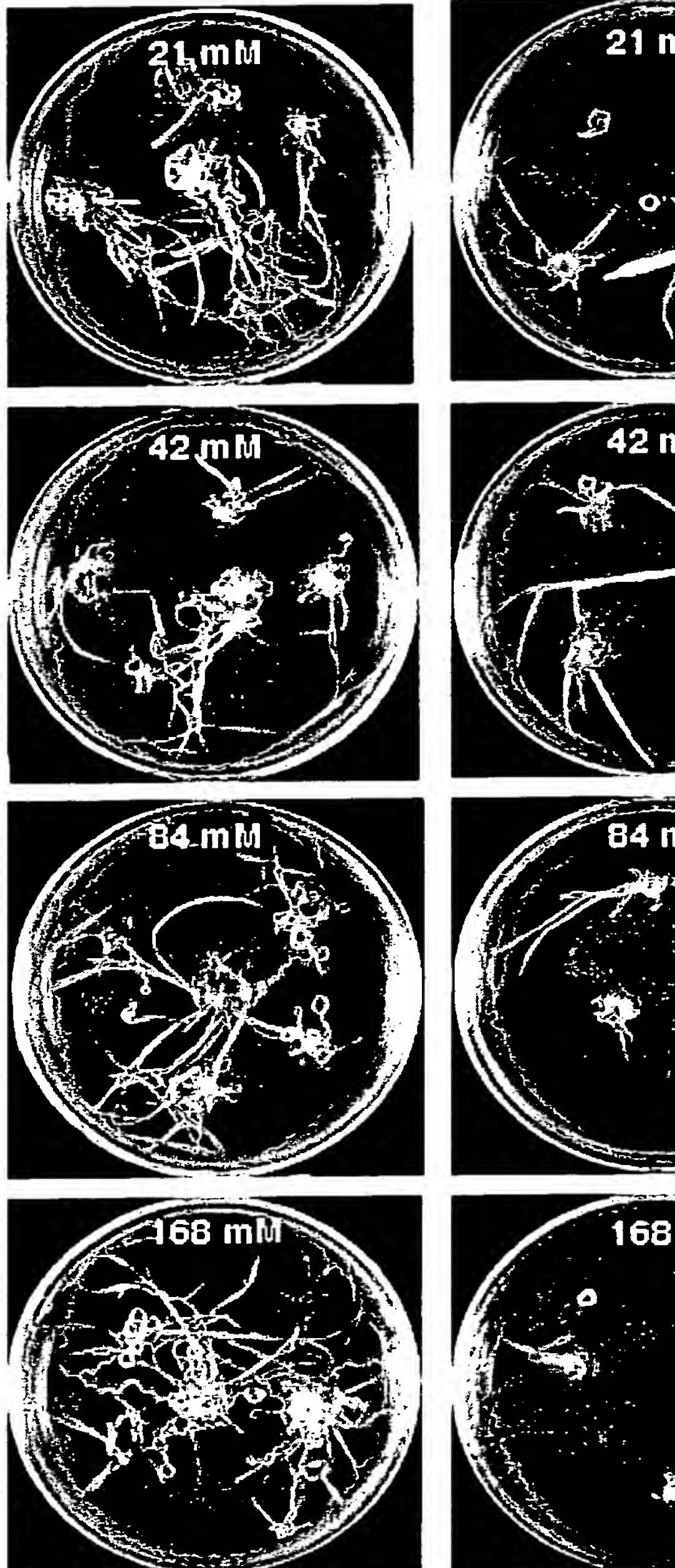
Fig.8



10/553124

Fig. 9

Plant redifferentiated from Nipponbare callus  
+ glucose + galactose



# **35S:PsUGE1a:nosT** (Transgenic Nipponbare) **+ galactose**

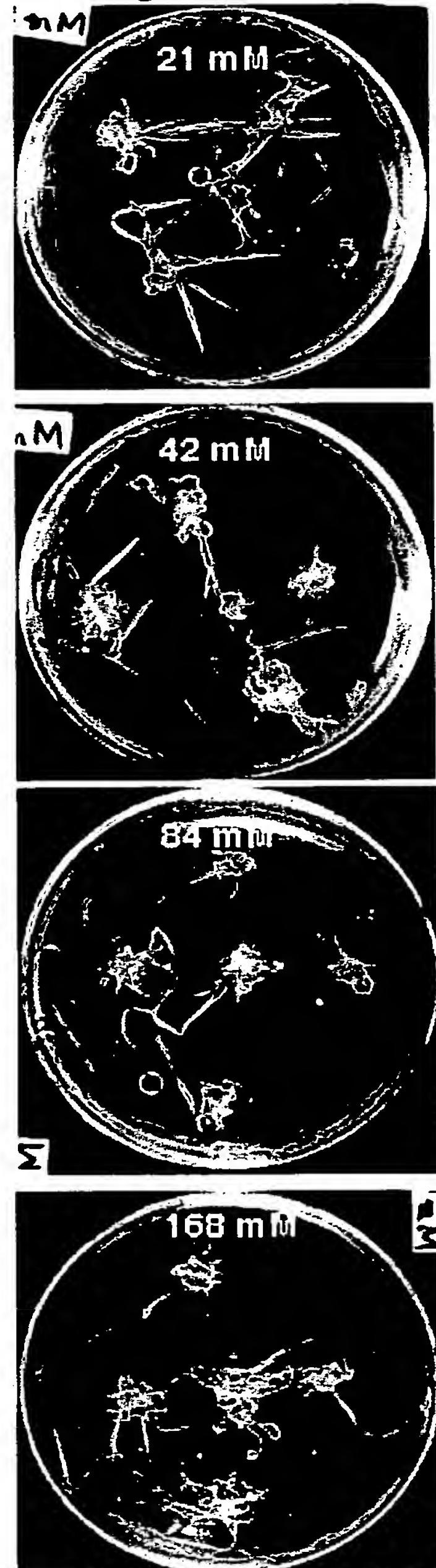


Fig. 10

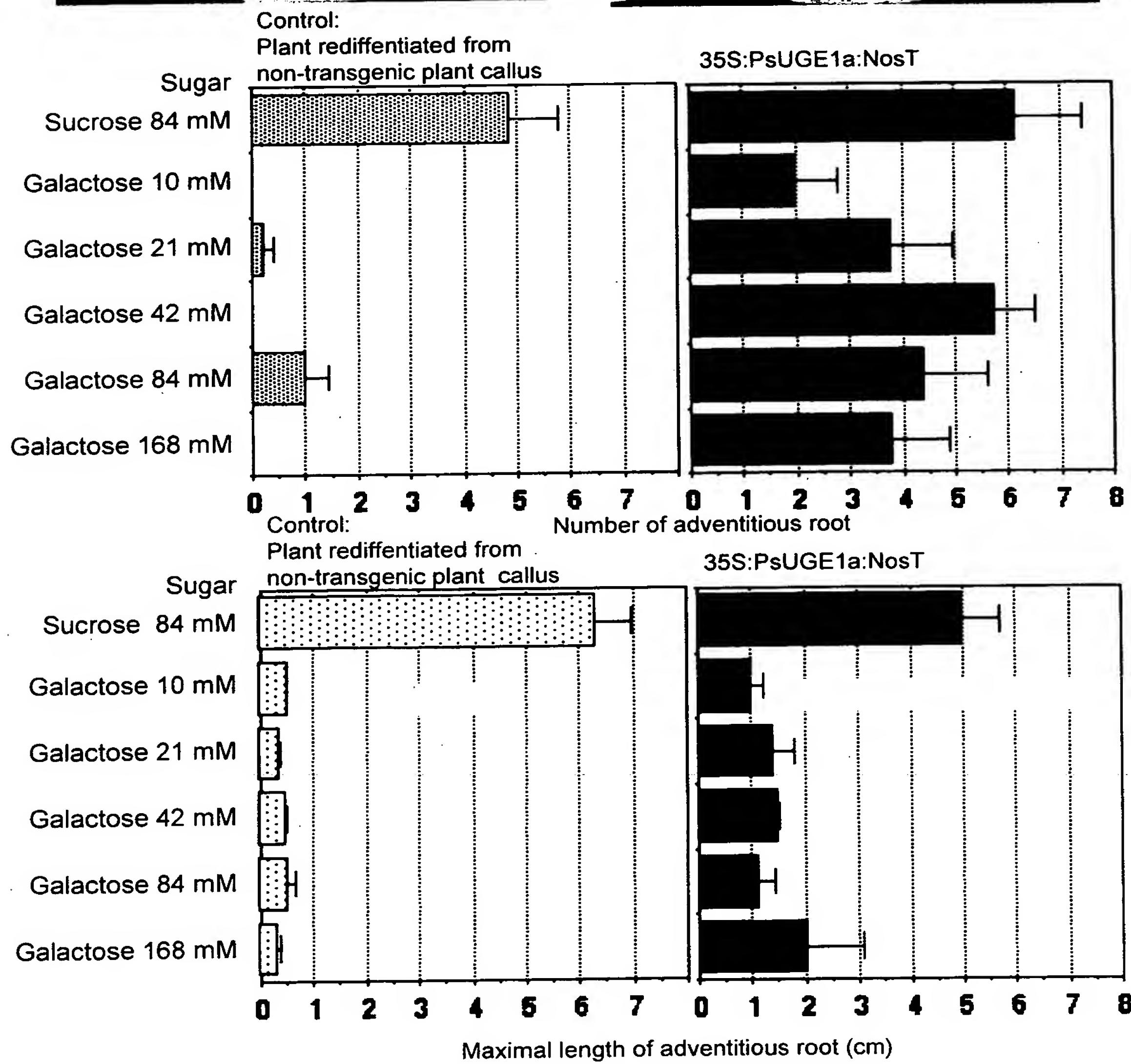
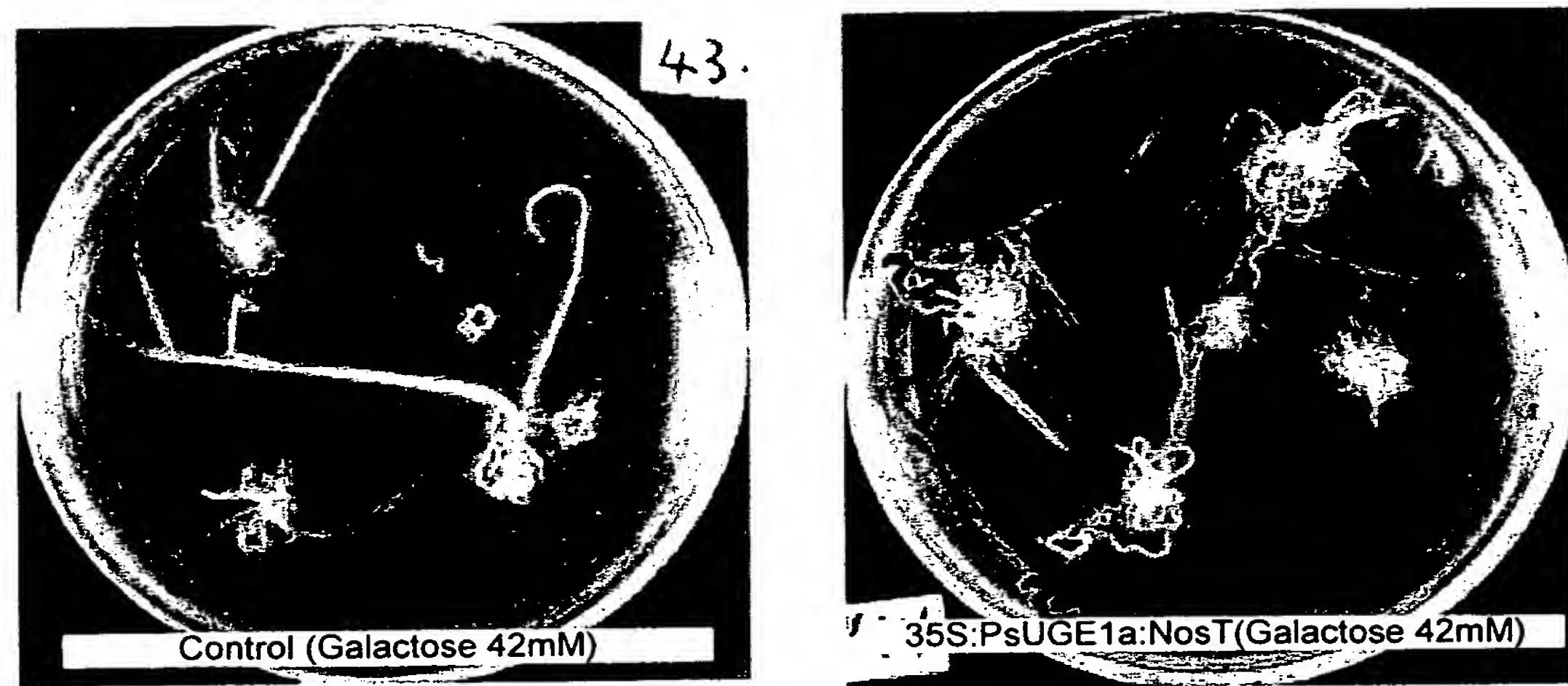


Fig.11

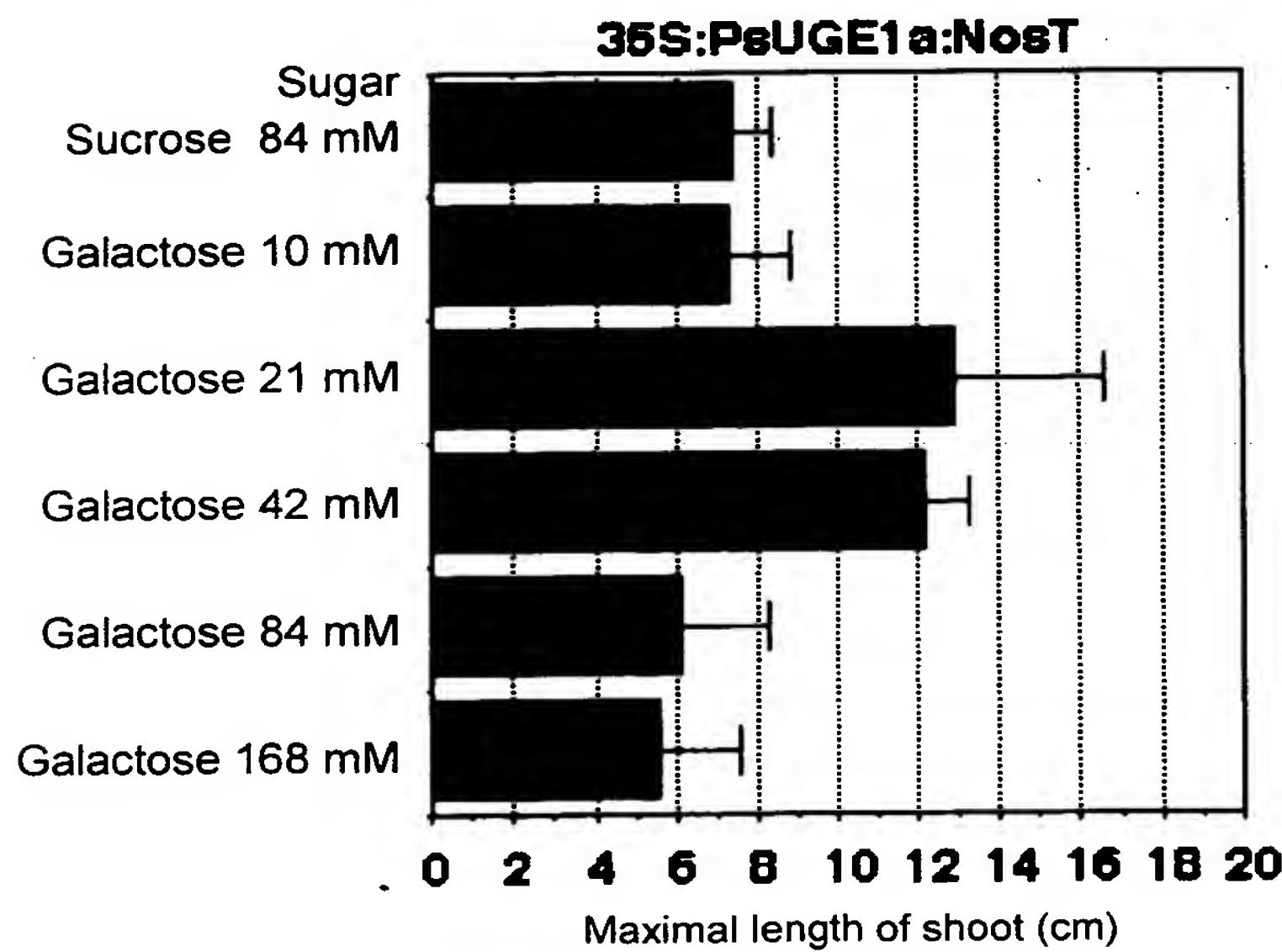
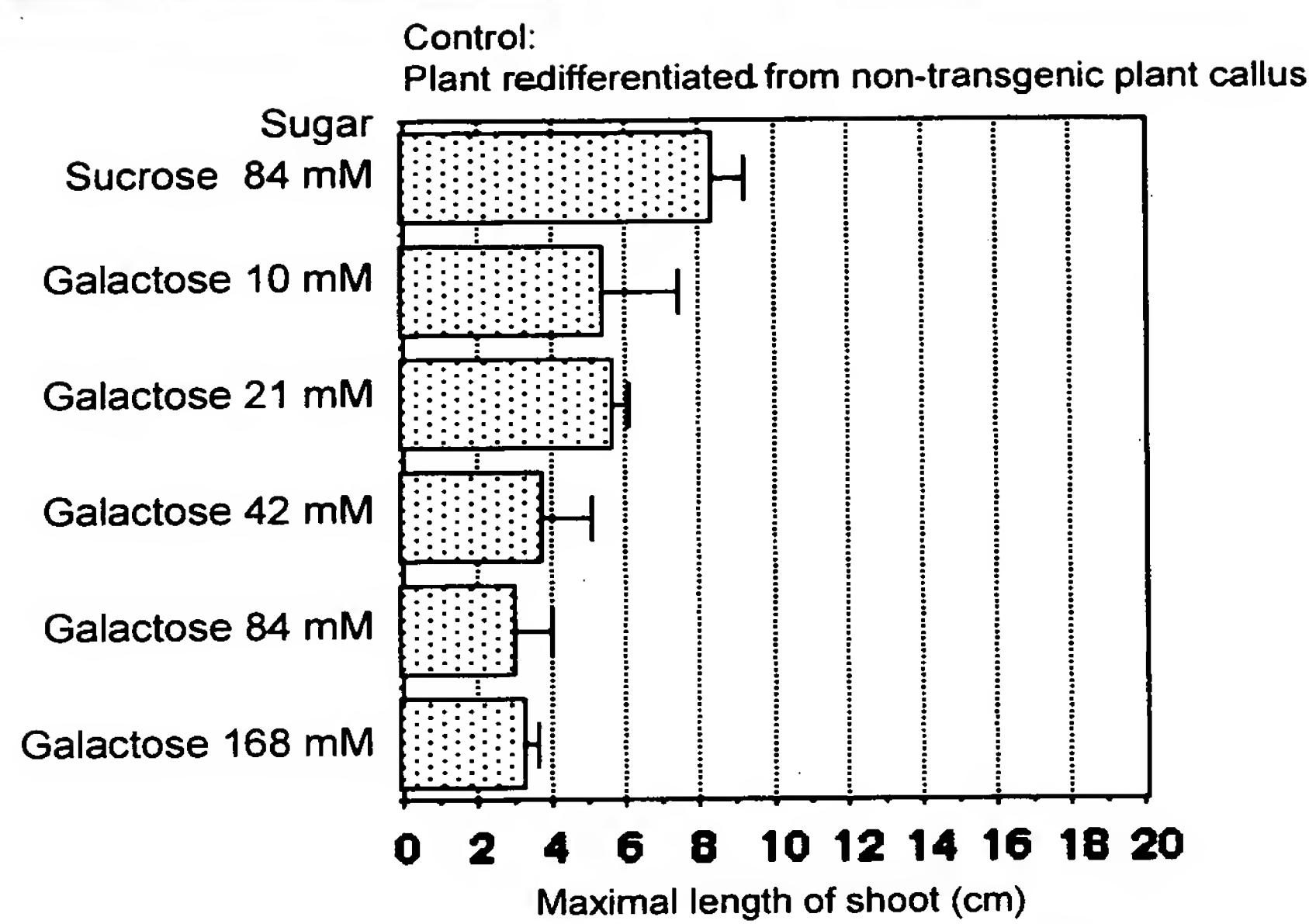
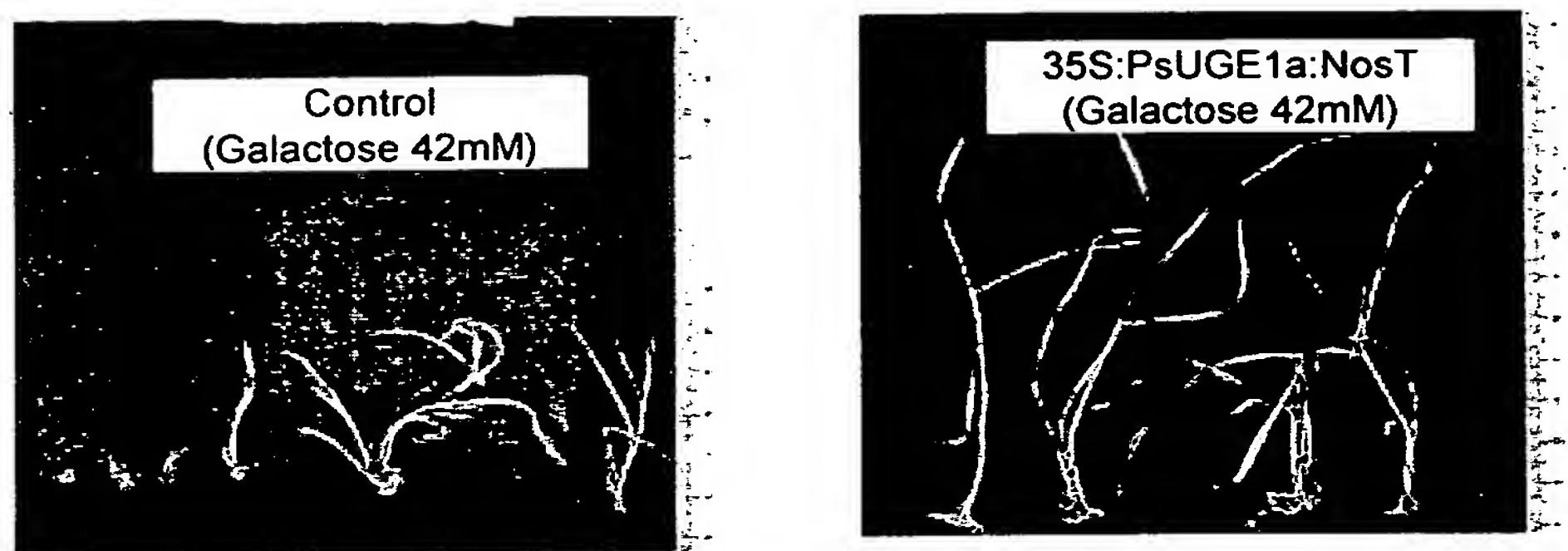


Fig.12



Fig.13

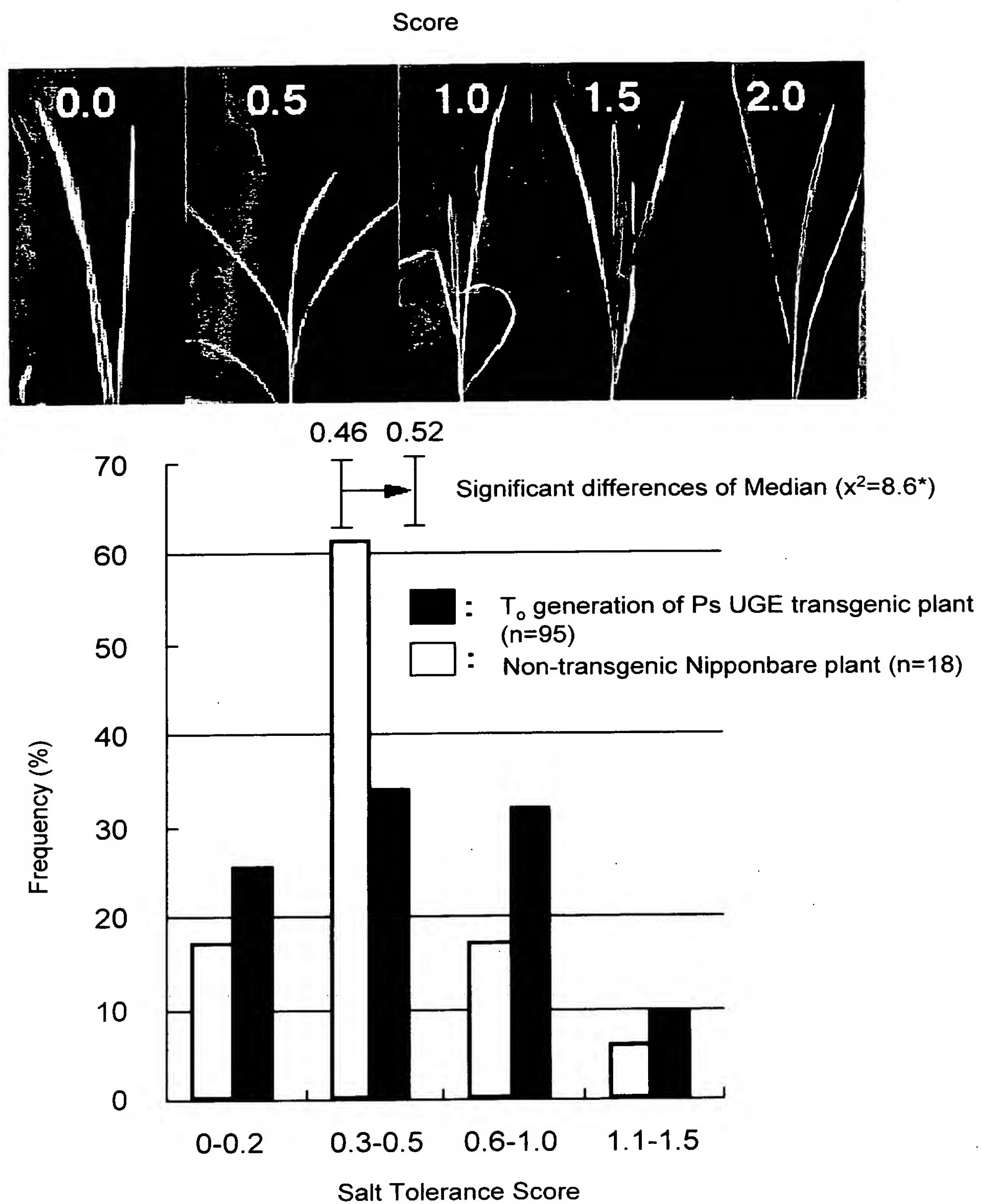


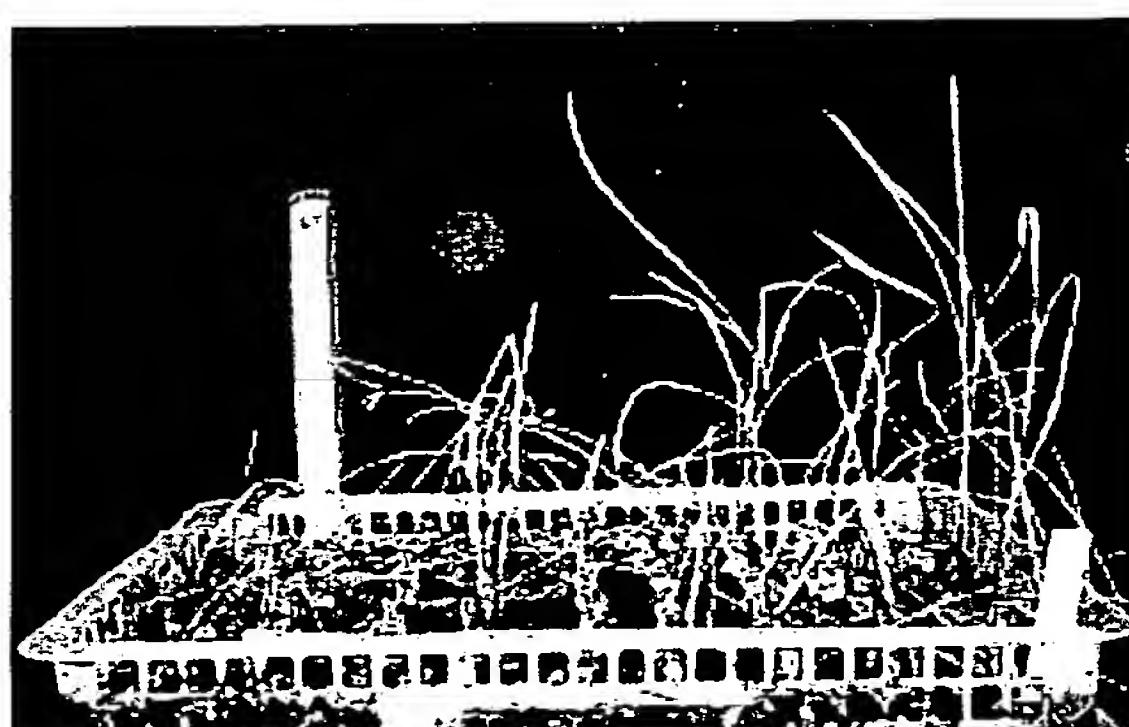
Fig.14



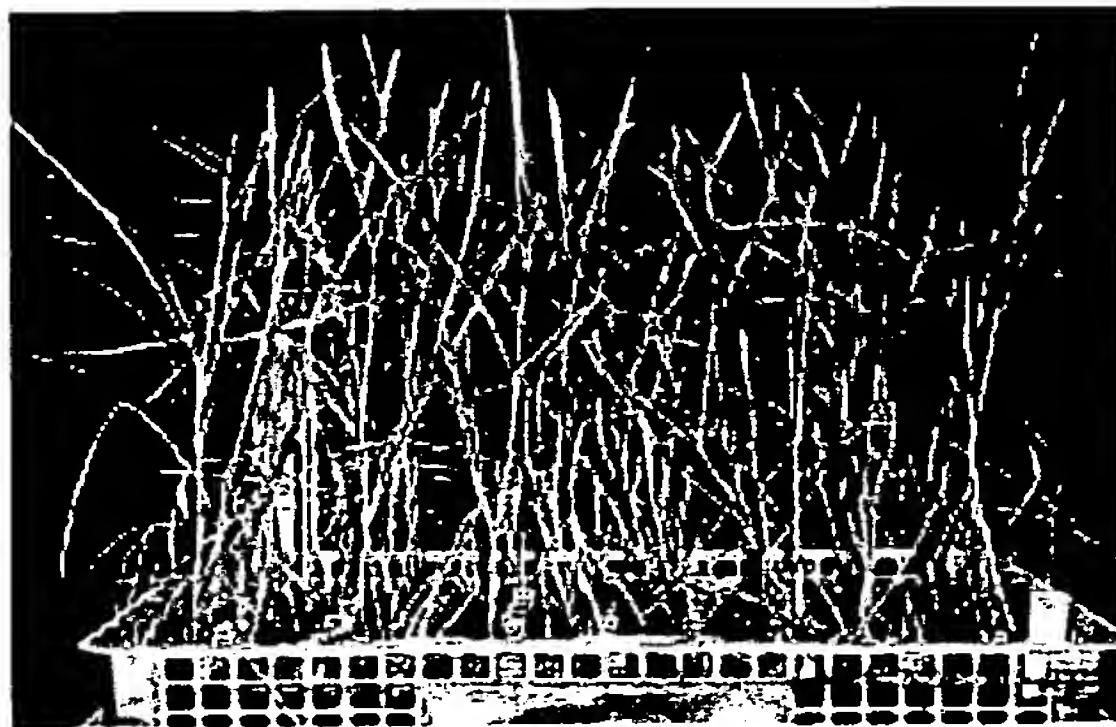
Non-transgenic rice (2 weeks later)



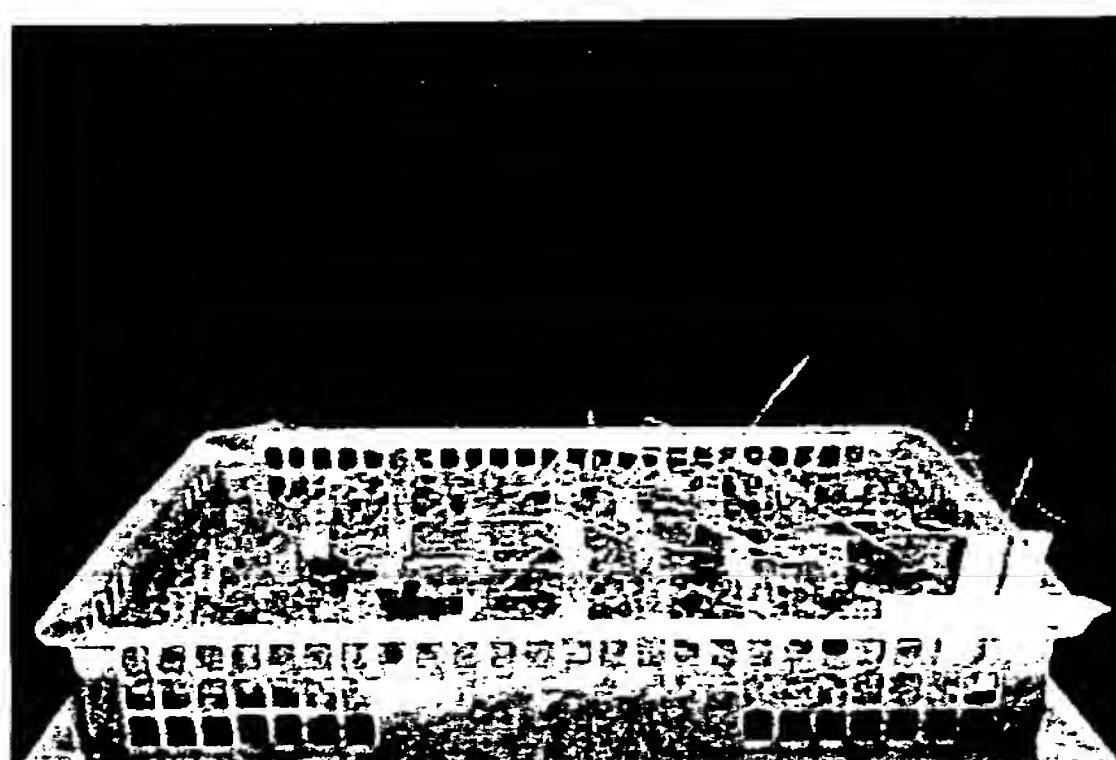
PseUGE transgenic rice ( 2 weeks later)



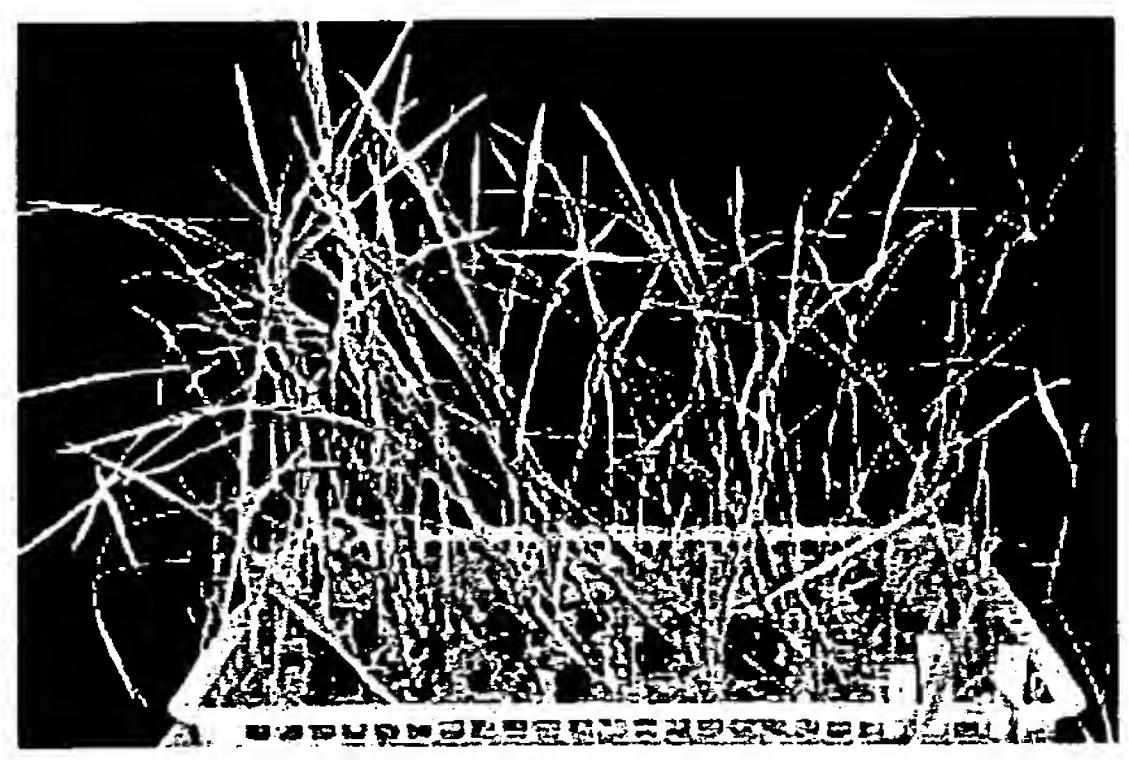
Non-transgenic rice (4 weeks later)



PseUGE transgenic rice (4 weeks later)



Non-transgenic rice (8 weeks later)



PseUGE transgenic rice (8 weeks later)

Fig.15



Fig. 16

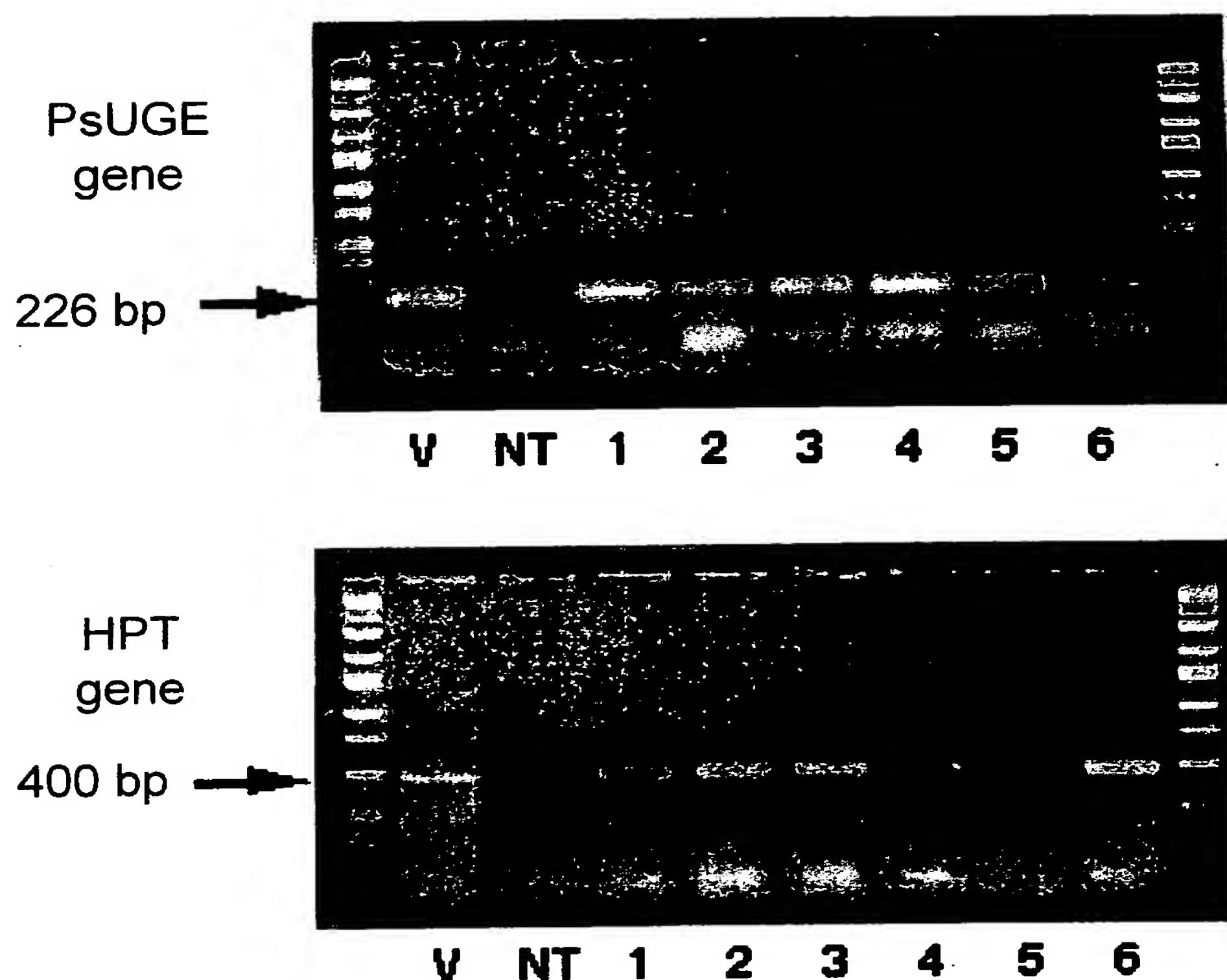


Fig.17

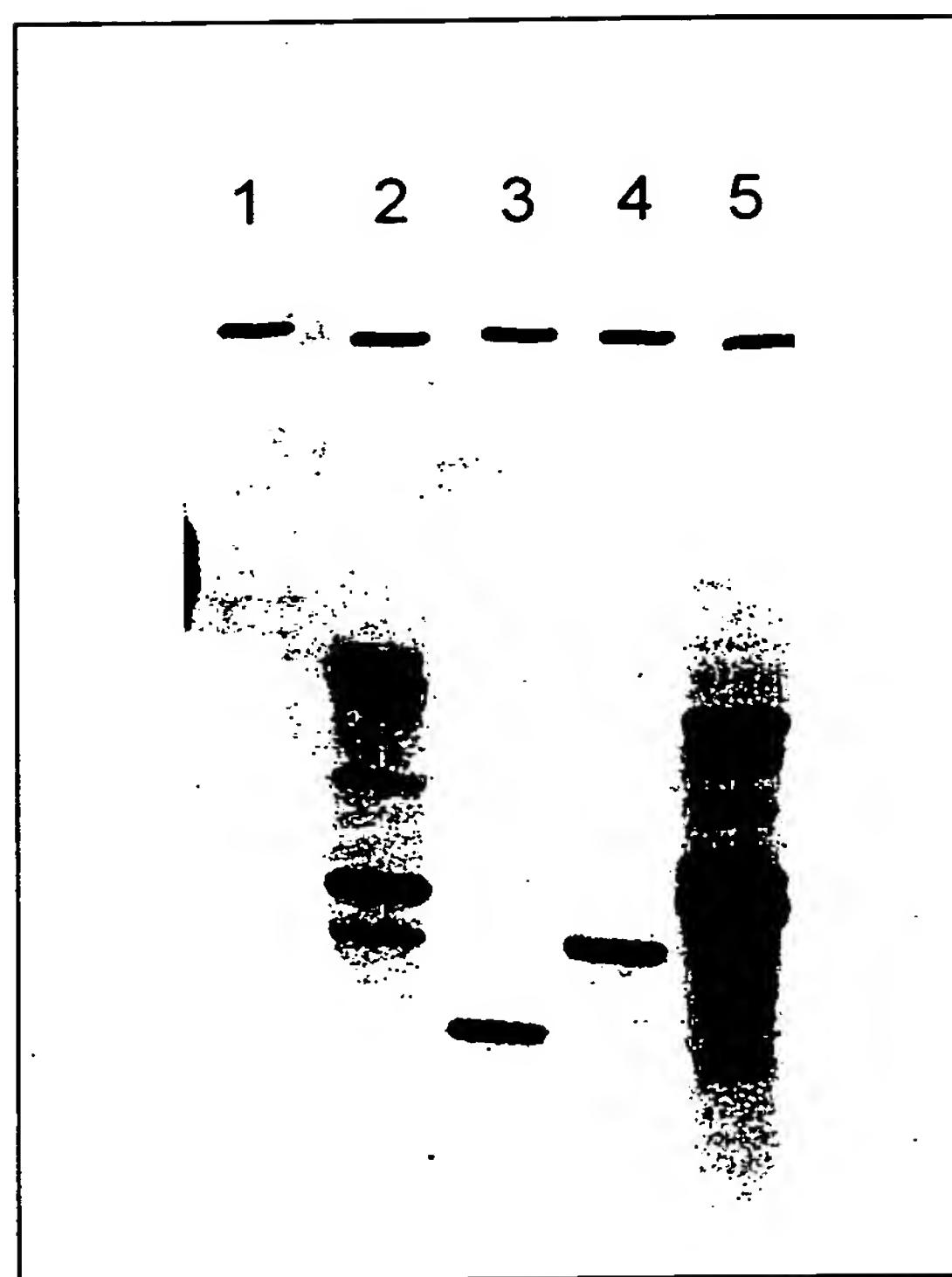
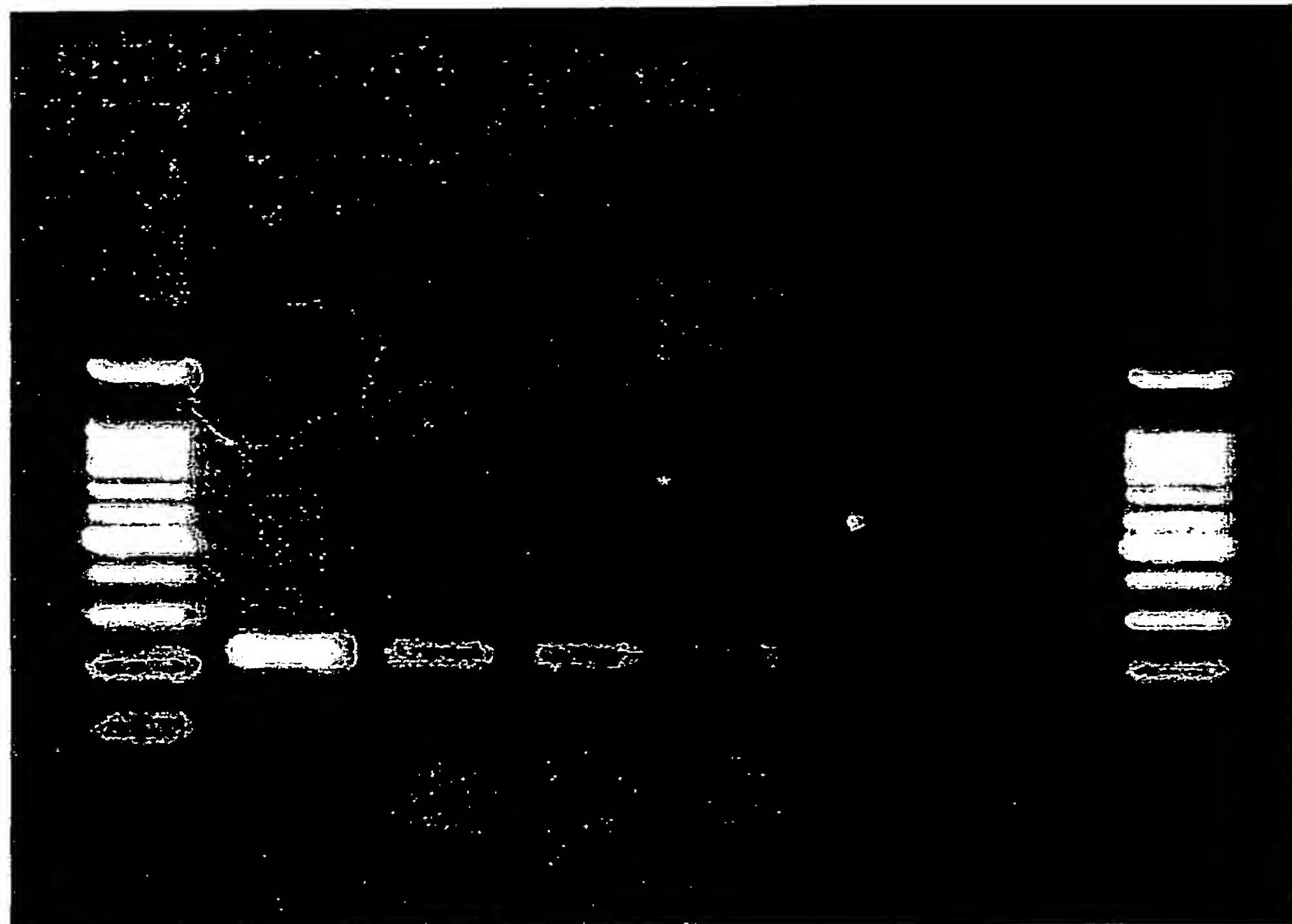


Fig.18

1 2 3 4 5 6



10/553124

Fig. 19

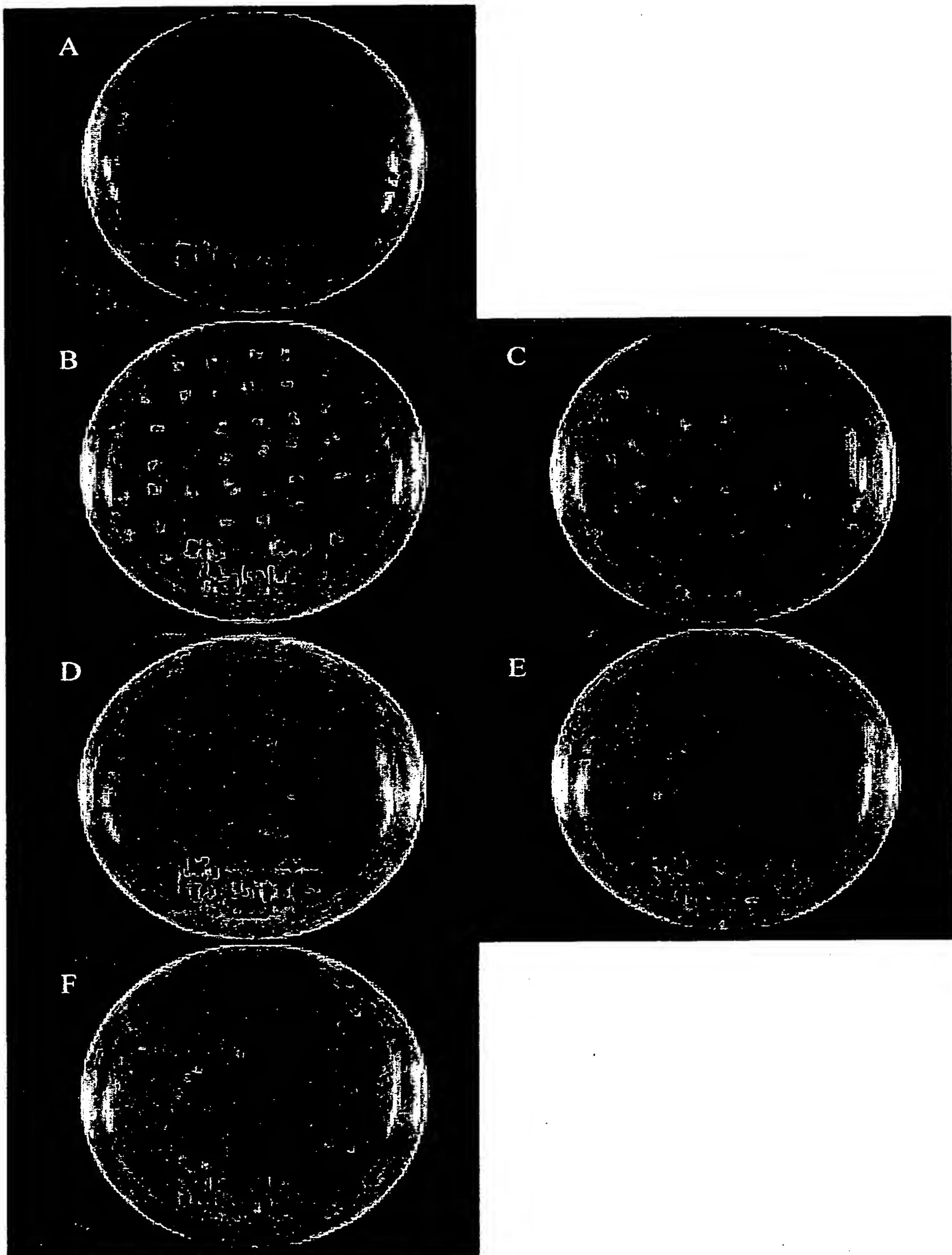


Fig.20

